

Title (en)

CALIBRATION METHOD AND APPARATUS FOR PANORAMIC STEREO VIDEO SYSTEM

Title (de)

KALIBRIERVERFAHREN UND VORRICHTUNG FÜR PANORAMISCHES STEREO-VIDEO-SYSTEM

Title (fr)

PROCÉDÉ ET APPAREIL D'ÉTALONNAGE DESTINÉ À UN SYSTÈME VIDÉO STÉRÉOSCOPIQUE PANORAMIQUE

Publication

EP 3403403 B1 20230607 (EN)

Application

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Priority

CN 2016070712 W 20160112

Abstract (en)

[origin: WO2017120802A1] A method of generating a stereoscopic panorama is provided, the method comprising: processing a first right image, a second right image, a first left image, and a second left image to derive a right homography between the first right image and the second right image and a left homography between the first left image and the second left image; stitching the first right image with the second right image to generate a right panorama, the first left image with the second left image to generate a left panorama wherein the right homography is consistent with the left homography; and generating a stereo panorama using the right panorama and the left panorama. The method further comprises capturing the first right image, the second right image, the first left image, and the second left image using a camera array comprising a first right camera, a second right camera, a first left camera, and a second left camera, wherein a relative position between the first right camera and the second right camera is substantially the same as a relative position between the first left camera and the second left camera, and the first right camera and the second right camera comprise parallel optical axes.

IPC 8 full level

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Citation (examination)

- EP 2695385 B1 20151209 - FRAUNHOFER GES FORSCHUNG [DE]
- WO 2017098090 A1 20170615 - AALTO UNIV FOUND [FI]

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